Ministry of Northern Development and Mines

Ontario

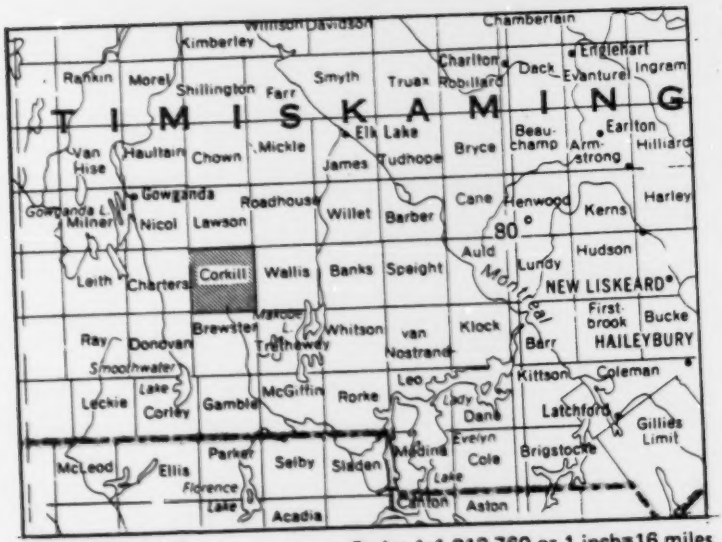
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 516

CORKILL TOWNSHIP

Compiled by the Staff of the Resident Geologist's Office Cobalt



LOCATION MAP

Scale: 1:1 013 760 or 1 inch=16 miles

CANADA ONTARIO Mineral Development Exploitation Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

91-00224/

NTS Number 41P/10 and 41P/7

Mining Claim Map Number M.314

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Corkill Township, Geological Data Inventory Folio 516; compiled by the staff of the Resident Geologist's office, Cobalt.

Original Compilation by: Patricia Anderson, February 24, 1989

Date	Page Revised	Revised by

Date	Page Revised	Revised by

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

TABLE OF CONTENTS

Data Sources Checklist	1
Metals and Minerals Reference List	2
Mineral Occurrences	3
Type of Work	4
Drill Hole Summary	6
Airborne Geophysical Survey Data	7
Geochemical Survey Data	8
Miscellaneous Data	9
Newspaper Clipping File	10
ODM General Index Search	11
Selected References	16
Notes and Addenda	22

ACCOMPANYING MAPS

Property Location Map 1

Exploration Data Map 1

Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	No	D.P.A.
3	ODM General Index; 9 Volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	D.P.A.
14	Author - Subject Articles File	Yes	D.P.A.
15	Miscellaneous Papers: ODM & OGS	No	D.P.A.
16	ODM Geological Circulars: OGS Study Series	Yes	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	Yes	D.P.A.
18	ODM – OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	Yes	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . Beryl
△ Bi. . . . . Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
△ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
▲ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
▲ gn. . . . . Galena
△ gt . . . . . Garnet
△ goe . . . . . .Goethite
△ Au . . . . . Gold
△ gf . . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . Gypsum
△ hem . . . . . Hematite
△ il . . . . . Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
▲ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . .Magnesite
▲ mag . . . . . .Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
▲ ml . . . . . .Millerite
△ mo . . . . . Molybdenite
△ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
▲ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . Pentlandite
△ Pt. . . . . .Platinum
△ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
▲ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
▲ sm . . . . . Smaltite
△ sod . . . . . Sodalite
▲ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
△ Zn . . . . . .Zinc
△ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary.

CORKILL TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Kell Silver Mine (Ourgold)	Ag - major Co, Ni - minor sm, ml, nc, mag, spec, po		MRC 10, p. 369, 372 MDIR #T 0267 ODM #Ag-0479001 NMI 41P/10 Ag 10	Past producer - 1919-1920, 1621 oz. Ag from 1584 lb. ore ODM 1926, AR Vol. 35, pt. 3, pp. 58-59 ODM 1921, Map 30b OGS 1971, GR 89, pp. 44-46 and Map 2208
B.	Kell Prospect	Ag, Cu, Pb, gn		MRC 10, p. 410, 369 NMI 41P/10 Ag 11	ODM 1926, AR Vol. 35, pt. 3, p. 60 ODM 1921, Map 30b ODM 1962, Map P.159

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1a	Kell Silver Mine																			
	Kell, Hugh, 1909-1919 (Kell Brothers & Perriault)			09																
	Kerr Lake Mining Co., option, 1917					17														
	Smith, J.G., option			19-20			19-20													
	Silver Chest Mines Ltd., 1946 (see data from Property #2)			47	47		47													
	Ourgold Mining Co. Ltd., option, 1962 (see data from Property #5)				65															
1b	Kell Prospect			10																
2	Silver Chest Mines Ltd., 1946			47	47		47	46 17 17												
	Kerr Lake Mining Co., 1917 option					17														
	Pearson, G.					49														

GDIF FORM NO. 2

CORKILL TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
3	Pearson, G.			49-57?				50 57 49												
4	Ames, Ezra				64															
5	Ourgold Mining Co. Ltd., option 1962. Additional notes in Corkill Tp. R.T. notes AF				65	65		65												

GDIF FORM NO. 2

5

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Silver Chest Mines Ltd.		1947	3 holes totalling 120'					
2	Ames, Ezra		1964	South	-40	0	483		
3	Ourgold Mining Co. Ltd.	1	1965				109+		Cu, Ag, Co
		2	1965				76		Cu, Ag, Co Ni
		3	1965						
		4	1965						

GDIF FORM NO. 3

CORKILL TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No data available as of February 24, 1989				

GDIF FORM NO. 4

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
No data available as of February 24, 1989				

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
A.	Rb/Sr Rb/Sr	Diabase ore	MRC 10, p. 372	2150 m.y. 2150 m.y.

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office, Cobalt.

Ourgold Mining Co. Ltd.

GDIF FORM NO. 7

ODM GENERAL INDEX SEARCH

Words searched:
Ames, Ezra
Bear River
Coldspring Creek
Conolly Lake
Corkill Township
Gowganda-Keora Silver Mine
Greenshore Lake
Headwater Lake
Isadel Lake
Kell, Hugh
Kell Prospect
Kell Silver Mine
Kerr Lake Mining Co.
Little Southbear Lake

Index Volume	Listing:	Report Volume	Part	Page
	*Out of Print			
1	Bear River, Montreal river	*16	2	117,129
		*17		56,57
	Corkill Tp., Tim.	*18	1	47
	Staking in	*18	2	2
		*19	1	52
2	Conolly Lake, Brewster and Corkill tps.			
	Cobalt series. See map 30b with	*30	3	
	Corkill Tp., Tim.			
	Geology	*30	3	9,44,45
		*35	3	11,59
	map of W. pt. See map 30b with	*30	3	
	Sand deposits	*30	3	3
		*35	3	3
	Silver mg. See Gowganda-Keora s.m. Kell s.m.			
	Gowganda-Keora Silver Mines Ltd.			
	Capital; officers	*35	1	147
	Headwater Lake, Corkill tp.			
	Pleistocene. See map 30b with	*30	3	
	Kell, Hugh			
	See also Kell s.m.			
	Discovered silver, Corkill tp.	*30	3	45

GDIF FORM NO. 8

CORKILL TOWNSHIP

ODM GENERAL INDEX SEARCH

Words searched:

Michaels Lake
North Lady Evelyn River
Ourgold Mining Co. Ltd.
Paddle Lake
Pearson, G.
Shack Creek
Shack Lake
Silver Chest Mines Ltd.
Smith, J.G.
Southbear Lake

Index Volume	Listing:	Report Volume	Part	Page
2	Kell Silver Mine, Corkill tp.			
	Description and section	*30	3	45,46
	Location, map showing	*30	3	22
	Operations (1920)	*29	1	107
	Producing	*30	1	10
		*30	3	4
	Shipments	*31	2	28
	Kell Brothers and Perriault			
	Silver mg., Corkill tp.	*28	1	151
	Shack Lake, Corkill tp.			
	contact, diabase and quartzite	*30	3	45
	See also map 30b with	*30	3	
	Smith, J.G.			
	Acquired Kell silver claims, Corkill tp.	*29	1	107
		*30	3	45
4	Corkill Tp., Tim.			
	Silver mg.	56	2	110
		57	2	110
	Kell Silver Claims, Corkill tp.			
	See Silver Chest Mines			
	Ourgold Mining Co. Ltd.			
	Incorporated	56	1	47
	Pearson, G.			
	of Kell s.m.	57	2	110
	Silver Chest Mines	56	2	110

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
4	Silver Chest Mines Ltd.			
	Capital; officers; operations: (1946)	56	2	110
	(1947)	57	2	110
	Incorporated	56	1	48
8	Ames, Ezra			
	Corkill Tp., Timiskaming Dist.	GR 89		31,47
	Corkill, Leith & Charters Tps., Timiskaming Dist.			
	Geology of the area			
	Report & map 2208 on, 1971 by W.H. McIlwaine	GR 89		
	silver/cobalt	GR 89		44-46
	Corkill-Leith Area, Timiskaming Dist.			
	summary of field work, 1968 by W.H. McIlwaine	MP 22		55-57
	Corkill Tp., Timiskaming Dist.			
	Geology of the Maple Mt. area	GR 106		
	silver	GR 106		81
		MRC 10		372,410
	Greenshore Lake			
	Corkill & Wallis Tps., Timiskaming Dist.	GR 89		14
	Headwater Lake			
	Corkill Tp., Timiskaming Dist.	GR 89		23
	Kell, Hugh			
	Corkill Tp., Timiskaming Dist.	GR 89		1,44,47

GDIF FORM NO. 8

CORKILL TOWNSHIP

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Kell Mine Corkill Tp., Timiskaming Dist.	GR 89 MP 22		1,44-46 56,57
	Michaels Lake Corkill Tp., Timiskaming Dist.	GR 89		18,22, 26
	Ourgold Mining Co. Ltd. Corkill Tp., Timiskaming Dist.	GR 89 GR 106 MP 22 MRC 10		1,44-46 89 56 372
	Paddle Lake Corkill Tp., Timiskaming Dist.	GR 89		18
	Pearson Property Corkill Tp., Timiskaming Dist.	GR 89		61
	Shack Lake Corkill Tp., Timiskaming Dist.	GR 89		18,26, 29
	Silver Chest Mines Ltd. Corkill Tp., Timiskaming Dist.	GR 89		31,46
	Smith, J.G. Corkill Tp., Timiskaming Dist.	GR 89		44
	Southbear Lake Corkill Tp., Timiskaming Dist.	GR 89		18

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Corkill Township, Timiskaming Dist. millerite	MP 70		241

GDIF FORM NO. 8

CORKILL TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		*Out of Print		
Andrews, A.J.	1986	Silver vein deposits: summary of recent research	Canadian Journal of Earth Sciences, Vol. 23, No. 10	pp. 1459-1462
Andrews, A.J., Masliwec, A., Morris, W.A., Owsiacki, L., York, D.	1986	The Silver Deposits at Cobalt and Gowganda Ontario. II: An experiment in age determinations employing radiometric and paleomagnetic measurements.	Canadian Journal of Earth Sciences, Vol. 23, No. 10	pp. 1507-1518
Andrews, A.J., Owsiacki, L., Kerrich, R., Strong, D.F.	1986	The Silver Deposits at Cobalt and Gowganda Ontario. I: Geology, petrography and whole-rock geochemistry	Canadian Journal of Earth Sciences, Vol. 23, No. 10	pp. 1480-1506
Card, K.D. et al	1971	Sudbury-Cobalt Sheet, Geological Compilation Series, Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury & Timiskaming Dist. Ont.	ODMNA Map 2188	1:253 440
Card, K.D., McIlwaine, W.H.	1973	Geology of the Maple Mountain Area, Timiskaming, Nipissing and Sudbury Dist. Ont.	ODM GR 106	
Card, K.D., McIlwaine, W.H.	1973	Smoothwater Lake, Timiskaming Dist. Ont.	ODM Map 2256	1:63 360
Card, K.D., Lumbers, S.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury + AL 5 Dists. Ont., Geological Compilation Series	ODM Map 2361	1:253 440
Collins, W.H.	1909	Preliminary Report on the Gowganda Mining Division, District of Nipissing, Ont.	*GSC Separate Report 1075 *GSC Map 1076	1:63 360

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	*GSC Memoir 33 *GSC Memoir 64A	1:63 360
Easton, R.M.	1886	Geochronology of Ontario, Part 1: Compilation of Data	OFR 5592	179 p.
Fortescue, J.A.C.	1985	Preliminary Studies of Lake Sediment Geochemistry in an Area Northeast of Sudbury, NTS 41I/15, 41P/2,7+10, Sudbury & Tim. Dist.	OGS Geoph-Geoch Map 80 756	1:100 000
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury & Temiskaming Dist. Ont., Geological Compilation Series	ODM Map 2046	1:253 440
Goodz, M.D., Watkinson, D.H., Smejkal, V., Pertold, Z.	1986	Sulphur-isotope geochemistry of silver-sulpharsenide vein mineralization, Cobalt, Ont.	Canadian Journal of Earth Sciences, Vol. 23, No. 10	pp. 1551-1567
GSC	1956	Aeromagnetic Map, Gowganda, Ontario	GSC Map 284G	1:63 360
Gupta, V.K.	1981	Bouger Gravity and Generalized Geological Map of Gogama-Gowganda Area, NTS 41P, Timiskaming & Sudbury Dist. Ont.	OGS Map P.2481	1:100 000
Hunter & Assoc. Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area, NTS 31M/2 + 41P/E, Tim. + 2 other Dist.	OGS OFR 5486	3 volumes
Kerrich, R., Strong, D.F., Andrews, A.J., Owsiacki, L.	1986	The Silver Deposits at Cobalt and Gowganda, Ontario. III: Hydrothermal regimes and source reservoirs - evidence from H,O,C and SR isotopes and fluid inclusions	Canadian Journal of Earth Sciences, Vol. 23, No. 10	pp. 1519-1550

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Kretschmar, U., Kretschmar, D.	1980	Talc, Magnesite and Asbestos Deposits in the Kirkland Lake-Timmins Area, NTS 31M, 32D, 41O, 41P, 42A, 42B, Tim. + 2 AL Dist.	OGS OFR 5310	
Kretschmar, U., Kretschmar, D.	1986	Talc, Magnesite and Asbestos Deposits in the Timmins-Kirkland Lake Area, Tim. & Cochrane Dist.	OGS Study 28	
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt area, NTS 31M/W + 41P, Ont.	OGS OFR 5508	
Long, D.G.F., Leslie, C.A.	1986	The Placer Gold Potential of the Early Aphebian Gowganda Formation along the Northern Margin of the Cobalt Embayment, Ontario, with Comments on Associated Concentrations of Silver and Copper	OGS OFR 5608	
Mansinha, L., Wilkinson, D.A.	1983	Grant No. 109: Interpretation of Gravity Data from New Liskeard, NTS 31M/W, 41P/E, Ont.	OGS OFR 5440	
McIlwaine, W.H.	1969	Geology of Leith, Charters and Corkill Townships, District of Timiskaming, Ont.	ODM OFR 5035	
McIlwaine, W.H.	1969	Corkill Township, District of Timiskaming, Ont.	ODM Map P.504	1:15 840
McIlwaine, W.H.	1971	Geology of Leith, Charters and Corkill Townships, District of Timiskaming, Ont.	ODMNA GR 89 ODMNA Map 2208	1:31 680
MNR	1982	Ontario Basic Map Sheets	MNR Maps 20 17 5200 52600 20 17 5300 52600 20 17 5200 52500 20 17 5300 52500	1:20 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
MNR		Corkill Township Claim Map	MNR Map Plan M.214	1" = 40 ch.
OGS	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Geoph-Geoch Maps 80372-80410	1:250 000
Parks, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	*GSC Summary Report 1904 Vol. XVI, pt. A	pp. 198-225
Pyke, D.R., Ayres, L.D., Innes, D.G.	1973	Timmins-Kirkland Lake Geological Compilation Series, Cochrane, Sudbury & Timiskaming Dist. Ont.	ODM Map 2205	1:253 440
Redman, J.D., Strangway, D.W.	1986	Ontario Geoscience Research Grant Program, Grant No. 118, Surface Electromagnetic Mapping in Northern Ontario	OGS OFR 5615	
Reid, J.A.	1943	Mineral Resources of the Timiskaming Silver-Cobalt Area, Ontario	ODM Bulletin No. 134	
Roed, M.A.	1980	Elk Lake Area, NTS 41P/NE, Tim. Dist. Ont.	NOEGTS 83	
Roed, M.A., Hallett, D.R.	1980	NOEGTS Data Base Map, Elk Lake, NTS 41P/NE, Tim. Dist. Ont.	OGS Map 5020	1:100 000
Savage, W.S., Fenwick, K.G.	1962	Gogama Sheet, District of Sudbury and Timiskaming, Ont.	ODM Map P.151	1:126 720
Savage, W.S., Thomson, R., Fenwick, K.G.	1962	Elk Lake-New Liskeard Sheet, District of Timiskaming, Ont.	ODM Map P.159	1:126 720
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet + part of Ville Marie Sheet, NTS 41P, 31M/W, Timiskaming & Sudbury Dist., Ont.	OGS Map P.1514	1:250 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Surveys and Mapping Branch, EMR	1976	Smoothwater Lake	NTS 41P/7	1:50 000
Surveys and Mapping Branch, EMR	1976	Gowganda, Ont.	NTS 41P/10	1:50 000
Symons, D.T.A., Stupavsky, M.	1983	Grant No. 143: Analysis of Aeromagnetic Anomalies over Algoman-Type Iron Formations	OGS OFR 5476	
Thorpe, R.I., Goodz, M.D., Jonasson, I.R., and Blenkinsop, J.	1986	Lead-isotope study of mineralization in the Cobalt Dist. Ont.	Canadian Journal of Earth Sciences, Vol. 23, No. 10	pp. 1568-1575

GDF FORM NO.9

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

Kell Silver Mine produced 1621 oz. Ag in 1919-1920.

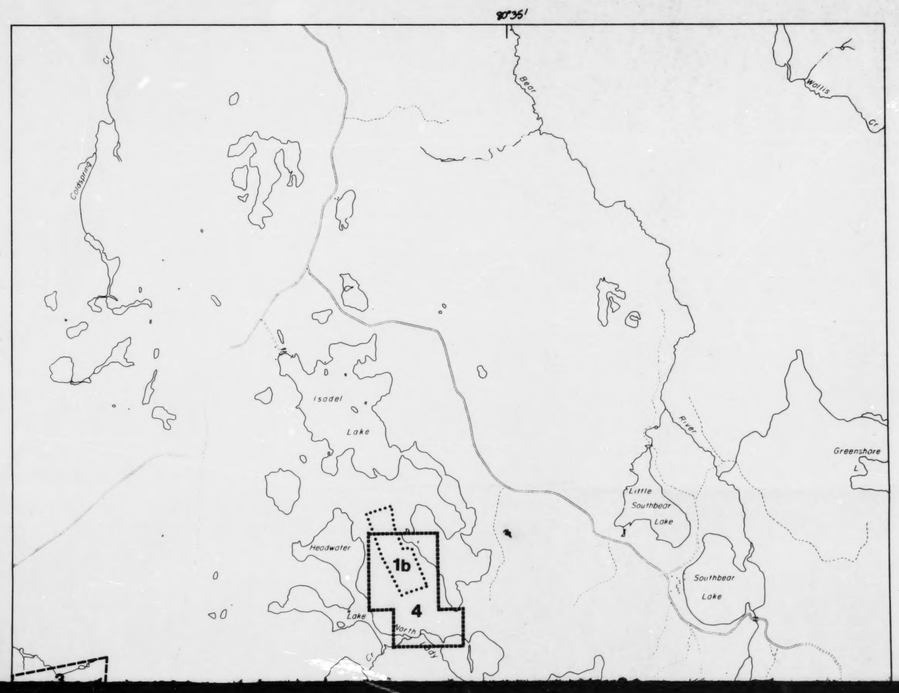
The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - on file in Cobalt

1" = ¼ mile for 1946, 1958R, 1959

Air photos can also be viewed at or purchased from the Public Service Centre, Room 1640, Whitney Block.

GDIF FORM NO.10



Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 516

(Map 1 of 2)

CORKILL TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outlined. See listing in text pages.
- Small area of exploration
- File covers whole township or area

Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 516

(Map 1 of 2)

CORKILL TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outlined. See listing in text pages.
- Small area of exploration
- File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- Airborne electromagnetic anomaly Location of anomaly along flight line
- Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit
- Number of trenches or pits in a small area

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 516

(Map 2 of 2)

CORKILL TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter
- Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly Length of anomaly along flight line
- Airborne electromagnetic anomaly Location of anomaly along flight line
- Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit
- Number of trenches or pits in a small area

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

(Map 2 of 2)

CORKILL TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter
- Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number